7/27/99



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/625,626	07/26/2000	William C.Y. Lee	139.136USU1	8528	
22462	7590 09/17/2003				
GATES & COOPER LLP HOWARD HUGHES CENTER 6701 CENTER DRIVE WEST, SUITE 1050			EXAMINER		
			RAMPURIA, SHARAD K		
LOS ANGELI	ES, CA 90045		ART UNIT PAPER NUMBER		
			2683		
			DATE MAILED: 09/17/2003	19	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application	No.	Applicant(s)				
	09/625,626	ļ	LEE ET AL.				
Office Action Summary	Examiner		Art Unit				
	Sharad Rar	·	2683				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status							
1) Responsive to communication(s) filed on 27	February 200	<u>3</u> .					
2a)⊠ This action is <b>FINAL</b> . 2b)□ T	his action is no	on-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-30</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers	205						
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5		y (PTO-413) Paper No Patent Application (PT				

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## Response to Amendment

Because the Applicant's petition was not been entered. The prior art Feuerstein et al. still made of record and relied upon is considered pertinent to applicant's disclosure.

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-30 are rejected under 35 U.S.C. 102 (e) as being anticipated by Feuerstein et al.

- 1. Regarding Claim 1, Feuerstein disclosed A method for operating a wireless network, comprising:
- (a) collecting and analyzing information from the wireless network into a collection and analysis system (201; Fig.2), wherein the information includes location information (Col.10; 43-56) on mobile transceivers operating within the network; (Col.7; 45- Col.8; 10) and
- (b) optimizing the wireless network's operation from a network control system using the collected and analyzed information. (Col.7; 45- Col.8; 10)
- 2. Regarding Claim 2, Feuerstein disclosed The method of claim 1, wherein the location information comprises E911 location information. (Col.10; 43-56)
- 3. Regarding Claim 3, Feuerstein disclosed The method of claim 1, wherein the information further includes one or more types of information selected from a group comprising Hand Off (HO) information (Col.8; 46-55), Power information, Measurements, and System Parameters from the wireless network. (Col.8: 11-23)
- 4. Regarding Claim 4, Feuerstein disclosed The method of claim 1, wherein the information is collected when certain defined thresholds are triggered. (Col.12; 11-26)
- 5. Regarding Claim 5, Feuerstein disclosed The method of claim 1, wherein the optimizing step further comprises dynamically allocating radio frequency (RF) signal power in the wireless network based on the collected and analyzed information (Col.11; 11-25).
- 6. Regarding Claim 6, Feuerstein disclosed The method of claim 5, wherein the dynamically allocating step further comprises dynamically assigning radio frequency (RF) signal power to cells, sectors within cells, and mobile transceivers based on the collected and analyzed information (Col. 11; 11-25).

- 7. Regarding Claim 7, Feuerstein disclosed The method of claim 1, wherein the optimizing step further comprises setting dynamic dedicated handoff (HO) thresholds for individual mobile transceivers based on the collected and analyzed information. (Col.6; 18-41)
- 8. Regarding Claim 8, Feuerstein disclosed The method of claim 7, wherein the individual mobile transceivers each have a unique, assigned HO (hand off) threshold. (Col.12; 58-65)
- 9. Regarding Claim 9, Feuerstein disclosed The method of claim 8, wherein the optimizing step further comprises performing handoffs for individual mobile transceivers based on their unique, assigned HO(hand off) threshold and their location. (Col.6; 18-41)
- 10. Regarding Claim 10, Feuerstein disclosed The method of claim 9, wherein the performing step comprises performing handoffs for individual mobile transceivers in order to minimize interference levels. (Col.6; 18-41)
- 11. Regarding Claim 11, Feuerstein disclosed The method of claim 1, wherein the optimizing step further comprises intelligently forming radio frequency (RF) signal (Col.11; 11-25) beams using the collected and analyzed information. (Col.12; 66 Col.13; 26)
- 12. Regarding Claim 12, Feuerstein disclosed The method of claim 11, wherein the intelligently forming step further comprises steering an RF signal (Col.8: 11-23) beam in the direction of one or more mobile transceivers based on the collected and analyzed information. (Col.9; 47-59)
- 13. Regarding Claim 13, Feuerstein disclosed The method of claim 1, further comprising identifying and resolving problems using the collected and analyzed information. (Col. 12; 66 Col. 13; 26)

- 14. Regarding Claim 14, Feuerstein disclosed The method of claim 13, wherein the identifying and resolving step further comprises identifying problems in the wireless network, and correlating the identified problems with the collected and analyzed information. (Col.9; 47-59)
- 15. Regarding Claim 15, Feuerstein disclosed The method of claim 14, wherein the correlating step further comprises correlating the identified problems with mobile transceiver location information from the collected and analyzed information. (Col.9; 47-59)
- 16. Regarding Claim 16, Feuerstein disclosed A system for operating a wireless communications network, comprising:
- (a) a data collection and filter system (201; Fig.2), coupled to the wireless communications system, for collecting and analyzing information from the wireless network wherein the information includes location information (Col.10; 43-56) on mobile transceivers operating within the network. (Col.7; 45- Col.8; 10)
- (b) a network control system, coupled to the wireless communications system and the data collection and filter system, for optimizing the wireless network's operation using the collected and analyzed information. (Col.7; 45- Col.8; 10)
- 17. Regarding Claim 17, Feuerstein disclosed The method of claim 16, wherein the location information comprises E911 location information. (Col.10; 43-56)
- 18. Regarding Claim 18, Feuerstein disclosed The method of claim 16, wherein the information further includes one or more types of information selected from a group comprising Hand Off (HO) information (Col.8; 46-55), Power information, Measurements, and System Parameters from the wireless network. (Col.8: 11-23)

- 19. Regarding Claim 19, Feuerstein disclosed The method of claim 16, wherein the information is collected when certain defined thresholds are triggered. (Col.12; 11-26)
- 20. Regarding Claim 20, Feuerstein disclosed The method of claim 16, wherein the optimizing step further comprises dynamically allocating radio frequency (RF) signal power in the wireless network based on the collected and analyzed information (Col.11; 11-25).
- 21. Regarding Claim 21, Feuerstein disclosed The method of claim 20, wherein the dynamically allocating step further comprises dynamically assigning radio frequency (RF) signal power to cells, sectors within cells, and mobile transceivers based on the collected and analyzed information (Col.11; 11-25).
- 22. Regarding Claim 22, Feuerstein disclosed The method of claim 16, wherein the optimizing step further comprises setting dynamic dedicated handoff (HO) thresholds for individual mobile transceivers based on the collected and analyzed information. (Col.12; 58-65)
- 23. Regarding Claim 23, Feuerstein disclosed The method of claim 22, wherein the individual mobile transceivers each have a unique, assigned HO (hand off) threshold. (Col.6; 18-41)
- 24. Regarding Claim 24, Feuerstein disclosed The method of claim 23, wherein the optimizing step further comprises performing handoffs for individual mobile transceivers based on their unique, assigned HO(hand off) threshold and their location. (Col.6; 18-41)
- 25. Regarding Claim 25, Feuerstein disclosed The method of claim 24, wherein the performing step comprises performing handoffs for individual mobile transceivers in order to minimize interference levels. (Col.6; 18-41)

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26. Regarding Claim 26, Feuerstein disclosed The method of claim 16, wherein the optimizing step further comprises intelligently forming radio frequency (RF) signal beams using the collected and analyzed information. (Col.12; 66 – Col.13; 26).

- 27. Regarding Claim 27, Feuerstein disclosed The method of claim 26, wherein the intelligently forming step further comprises steering an RF signal beam (Col.8: 11-23) in the direction of one or more mobile transceivers based on the collected and analyzed information. (Col.9; 47-59) 28. Regarding Claim 28, Feuerstein disclosed The method of claim 16, further comprising identifying and resolving problems using the collected and analyzed information. (Col.12; 66 Col.13; 26)
- 29. Regarding Claim 29, Feuerstein disclosed The method of claim 28, wherein the identifying and resolving step further comprises identifying problems in the wireless network, and correlating the identified problems with the collected and analyzed information. (Col.9; 47-59) 30. Regarding Claim 30, Feuerstein disclosed The method of claim 14, wherein the correlating step further comprises correlating the identified problems with mobile transceiver location information from the collected and analyzed information. (Col.9; 47-59)

### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the

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mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on

the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be

calculated from the mailing date of the advisory action. In no event, however, will the statutory

period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sharad Rampuria whose telephone number is 703-308-4736.

The examiner can normally be reached on Mon-Thu.(8:15-5:45) alternate Fri.(8:15-4:45).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William Trost can be reached on 703-308-5318. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-872-9314 for regular

communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-305-4700.

SK

September 5, 2003

WILLIAM TROST SUPERVISORY PATENT EXAMINER

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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

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